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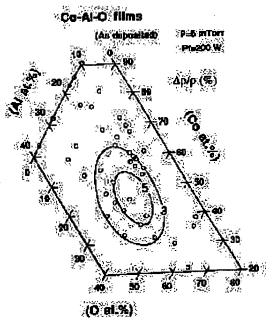
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(54) HIGH-ELECTRIC RESISTIVITY MAGNETIC THIN FILM

(57) Abstract:

PURPOSE: Not only to obtain a magnetic thin film of Co, Al, and O or a multilayered film composed of the magnetic thin films which is high in electrical resistivity, large in magnetoresistive effect at a room temperature, and high in magnetic field dependent-properties but also to provide an MR head and an MR sensor made thereof.

CONSTITUTION: A magnetic thin film is represented in composition by a general formula, Co100-x-yAlxOy, wherein composition ratios x and y are so set as to satisfy formulas. 10<x<30, 20<y<50, and 30<x+y<70. Furthermore, the magnetic thin film is doped with a small amount of impurities and possesses a magnetoresistive effect of 3% or more at room temperature.



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